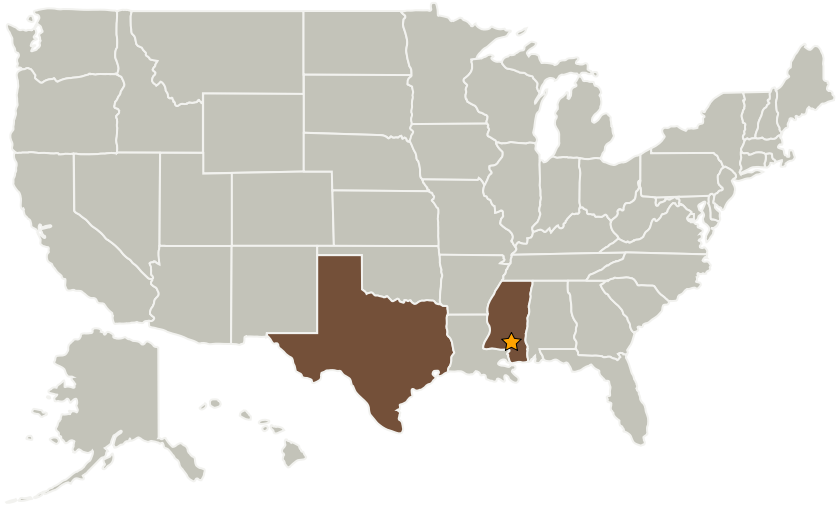
MOIDSS?- Mobile Online Intelligent Decision Support System, Phase I

Completed Technology Project (2004 - 2004)

Project Introduction

A mapping solution will be developed that allows for geospatial-reality intelligent linking database with remotely sensed images. This system is designed to use Earth Science datasets to support NASA Center Operations. Mobile Online Intelligent Decision Support Systems (MOIDSS?) can be deployed in a variety of NASA facilities and commercial industry facilities. This solution will support a range of technologies, such as, handheld field computers, Real-time Kinematic Global Positioning Systems (RTK-GPS), and wireless networking systems. This solution will utilize current of the shelf (COTS) technology, which is presently integrated in the NASA facilities. Commercial software will be developed for automated data collection and validation of spatial information. The innovative technology and theory will enable fusion of data in situ by using the geospatial-reality intelligent linking database (GRILD). This solution can be used by emergency response management teams, homeland security groups, and engineering staff to make vital decisions with all available spatial data. The goal of this project was to develop an innovative idea using advance methods and technologies to help NASA Earth Science and Center Operation directorates. Geospatial Research Innovation Design (GRID) proposes and supports this SBIR.

Primary U.S. Work Locations and Key Partners



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Stennis Space Center (SSC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Organizations Performing Work	Role	Type	Location
★Stennis Space Center(SSC)	Lead Organization	NASA Center	Stennis Space Center, Mississippi
Geospatial Research Innovation Design	Supporting Organization	Industry	Corpus Christi, Texas

Primary U.S. Work Locations	
Mississippi	Texas

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Stacey Lyle

Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
  - TX11.4 Information Processing
    - TX11.4.2 Intelligent Data Understanding